

Freeform Search

Database: US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Term:

Display: **Documents in Display Format:** **Starting with Number**

Generate: ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

Search

Clear

Interrupt

Search History

DATE: Tuesday, January 18, 2005 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L33</u>	5740457.pn.	2	<u>L33</u>
<u>L32</u>	5878419.pn.	2	<u>L32</u>
<u>L31</u>	l30 and (tasks or duties or jobs)	31	<u>L31</u>
<u>L30</u>	"financial service organization"	72	<u>L30</u>
<u>L29</u>	L25 and (business or organization or company or corporation)	14	<u>L29</u>
<u>L28</u>	L17 and (business or organization or company or corporation)	14090	<u>L28</u>
<u>L27</u>	L25 and (tasks or duties or jobs or titles or positions)	10	<u>L27</u>
<u>L26</u>	L25 and (tasks or duties or jobs)	8	<u>L26</u>
<u>L25</u>	L21 and (multilevel or multi-level or multi-tier or multitier)	17	<u>L25</u>
<u>L24</u>	L21 and (multilevel or multi-level or multi-tier or multitier) near organization	0	<u>L24</u>
<u>L23</u>	L21 and (multilevel or multi-level or multi-tier or multitier) near business near organization	0	<u>L23</u>
<u>L22</u>	L21 and (multilevel or multi-level) near business near organization	0	<u>L22</u>
<u>L21</u>	("financial service organization" or "fso")	1897	<u>L21</u>

<u>L20</u>	L18 and process\$	3343	<u>L20</u>
<u>L19</u>	L18 and display\$	2680	<u>L19</u>
<u>L18</u>	relationship near objects	4092	<u>L18</u>
<u>L17</u>	711.clas.	24026	<u>L17</u>
<u>L16</u>	711/217	681	<u>L16</u>
<u>L15</u>	711/216	443	<u>L15</u>
<u>L14</u>	715/533	309	<u>L14</u>
<u>L13</u>	715/513	2094	<u>L13</u>
<u>L12</u>	715.clas.	20232	<u>L12</u>
<u>L11</u>	707/103r	1668	<u>L11</u>
<u>L10</u>	707/100	5679	<u>L10</u>
<u>L9</u>	707.clas.	24557	<u>L9</u>
<u>L8</u>	705.clas.	31315	<u>L8</u>
<u>L7</u>	705/44	962	<u>L7</u>
<u>L6</u>	705/1	5578	<u>L6</u>
<u>L5</u>	705/5	907	<u>L5</u>
<u>L4</u>	705/35	2291	<u>L4</u>
<u>L3</u>	5892905.pn.	2	<u>L3</u>
<u>L2</u>	5864679.pn.	2	<u>L2</u>
<u>L1</u>	5907848.pn.	2	<u>L1</u>

END OF SEARCH HISTORY

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)[Search Forms](#)[Generate Collection](#)[Print](#)[Search Results](#)[Help](#)[User Searches](#)

1311 Entry 27 of 31

File: USPT

May 21, 2002

[Preferences](#)[Logout](#)

USPT NO: 6393386

DOCUMENT-IDENTIFIER: US 6393386 B1

TITLE: Dynamic modeling of complex networks and prediction of impacts of faults therein

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zager; David	Chappaqua	NY		
Kostes; Robert	Brooklyn	NY		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Visual Networks Technologies, Inc.	Rockville	MD			02	

APPL-NO: 09/ 048025 [\[PALM\]](#)

DATE FILED: March 26, 1998

INT-CL: [07] [G06](#) [F](#) [9/455](#)

US-CL-ISSUED: 703/25; 703/27, 709/223, 713/201, 370/254

US-CL-CURRENT: [703/25](#); [370/254](#), [703/27](#), [709/223](#), [713/201](#)

FIELD-OF-SEARCH: 395/500.05, 395/500.34, 395/500.44, 709/224, 709/300, 709/223, 709/227, 709/228, 703/25, 703/27, 370/254, 713/201

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#)[Search ALL](#)[Clear](#)

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	4985857	January 1991	Banpai et al.	364/551.01
<input type="checkbox"/>	5195095	March 1993	Shah	371/15.1
<input type="checkbox"/>	5295244	March 1994	Dev et al.	395/161
<input type="checkbox"/>	5309448	May 1994	Bouloutas et al.	371/29.1
<input type="checkbox"/>	5317568	May 1994	Bixby et al.	370/85.6
<input type="checkbox"/>	5517622	May 1996	Ivanoff et al.	395/200.13
	5528516	June 1996	Yemini et al.	364/551.01

<input type="checkbox"/>				
<input type="checkbox"/>	<u>5608720</u>	March 1997	Biegel et al.	370/249
<input type="checkbox"/>	<u>5661668</u>	August 1997	Yemini et al.	364/550
<input type="checkbox"/>	<u>5748896</u>	May 1998	Daly et al.	395/200.53
<input type="checkbox"/>	<u>5799153</u>	August 1998	Blau et al.	395/200.53
<input type="checkbox"/>	<u>5854750</u>	December 1998	Phillips et al.	364/478.04
<input type="checkbox"/>	<u>5918051</u>	June 1999	Savitzky et al.	395/683
<input type="checkbox"/>	<u>5951680</u>	September 1999	Redlin et al.	713/1

OTHER PUBLICATIONS

"HP Open View Network Node Manager", Administrator's Reference, Hewlett Packard, Manual Part No. J2316-900005, 12/93.

A.T. Bouloutas, et al, "Alarm Correlation and Fault Identification in Communication Networks", IEEE Transactions, vol. 42, No. 2/3/4, Feb./Mar./Apr. 1994.

Mark W. Saylor, Managing Phase V DECnet Networks: the Entity Model, IEEE Network, vol. 2, No. 2, 3/88.

S. Mark Klerer, "The OSI Management Architecture: an Overview", IEEE Network, vol. 2, No. 2, 3/88.

Mark T. Sutter et al., Designing Expert Systems for Real-Time Diagnosis of Self-Correcting Networks, IEEE Network, 9/98.

German Goldszmidt et al., "Evaluating Management Decisions via Delegation", Integrated Network Management, III, 1993.

International Communication Union, CCITT The International Telegraph and Telephone Consultative Committee X.731, "Data Communication Networks", 1/92.

J.F. Jordaan et al., "Event Correlation in Heterogeneous Networks Using the OSI Management Framework", Unit for Software Engineering, Department of Computer Science, University of Pretoria, South Africa.

International Communication Union, CCITT The International Telegraph and Telephone Consultative Committee X.832, "Data Communication Networks", 1/92.

ART-UNIT: 2123

PRIMARY-EXAMINER: Teska; Kevin J.

ASSISTANT-EXAMINER: Phan; T.

ABSTRACT:

A method and system are provided for use in administering a complex system, such as a distributed computing ensemble. A model of the system being administered is prepared, preferably during runtime of the invention, by a combination of autodiscovery processes and manual input of information as needed. The model represents not only the resources found in the administered system, but also the service-relationships among those resources. The system administrator also can define elements in the model corresponding to arbitrary groupings of already-existing parts of the model. Software agents, which can be reconfigured, started and terminated as desired during runtime, report changes in state of the managed resources to the model, which updates itself and explores portions of the model adjacent (in terms of the service relationships) to the affected resource(s). Clusters of neighboring state-changes that have a logical relation to each other are grouped together as an alarm, and are preferably represented in a graphical display. Any root-cause event of this type is marked as such, and any portions of the modeled system being (or logically likely to be) affected by the changes are

also identified and displayed.

17 Claims, 32 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)